| Ref<br># | Hits | Search Query   | DBs   | Default<br>Operator | Plurals | Time Stamp       |
|----------|------|--|---|---------------------|---------|------------------|
| L1       | 919  | 372/94.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/05/25 11:27 |
| L2       | 183  | I1 and (grating\$2)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/05/25 11:35 |
| L3       | 2    | ((channel\$4) and (resonat\$4) near2<br>(radial\$2 circl\$4 oval\$4) and<br>(refracti\$4)).clm.  | US-PGPUB  | OR                  | ON      | 2006/05/25 11:38 |
| L4       | 1    | ((channel\$4) and (resonat\$4) near2 (refracti\$4)).clm.   | US-PGPUB  | OR                  | ON      | 2006/05/25 11:38 |
| L5       | 54   | ((channel\$4) and (resonat\$4) and (refracti\$4)).clm.   | US-PGPUB  | OR                  | ON      | 2006/05/25 11:38 |
| L6       | 2    | ((channel\$4) and (resonat\$4) near3 (grating\$3) and (refracti\$4) ).clm.                       | US-PGPUB  | OR                  | ON      | 2006/05/25 11:40 |
| L7       | 144  | (optical\$4 near2 align\$4) same<br>(etch\$4) near3 (tolarance\$2<br>accura\$4 precis\$4)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/05/25 11:52 |
| L8       | 8    | (optical\$4 near2 align\$4) same<br>(etch\$4) near2 (single\$1 near2<br>(proces\$4 step\$4))     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/05/25 11:52 |
| L9       | 4    | (optical\$4 near2 align\$4) same<br>(etch\$4) near2 ((lone\$2 one) near2<br>(proces\$4 step\$4)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/05/25 11:52 |
| L10      | 1    | ("6571041").PN.  | US-PGPUB;<br>USPAT  | OR                  | OFF     | 2006/05/25 11:52 |
| L11      | 1619 | (optical\$4 near2 align\$4) same<br>(etch\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/05/25 11:52 |

| L12 | 113 | L11 and ((rotat\$4 spin\$4 revolv\$4) and slid\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
|-----|-----|---|---|----|-----|------------------|
| L13 | 9   | L11 same ((rotat\$4 spin\$4 revolv\$4) and slid\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L14 | 285 | 385/52,95-99.ccls. and (align\$4 same etch\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L15 | 32  | L14 and ((rotat\$4 spin\$4 revolv\$4)<br>and slid\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L16 | 285 | 385/52,95-99.ccls. and (align\$4 same etch\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L17 | 22  | L14 and ((rotat\$4 spin\$4 revolv\$4) same (slid\$4 move moving movable moved shift\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L18 | 1   | ("20050018969").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |
| L19 | 1   | ("20040052470").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |
| L20 | 15  | ("20020037142"   "20020181839"  <br>"4714214"   "5138496"   "5301251"<br>  "5570444"   "6115166"  <br>"6201644").PN. OR ("6571041").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/05/25 11:52 |

|     |      |   | _   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| L21 | 4323 | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and (align\$4 same etch\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L22 | 23   | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and ((align\$4 same etch\$4) same ((rotat\$4 spin\$4) and slid\$4 )) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L23 | 435  | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and ((align\$4 same etch\$4) and ((rotat\$4 spin\$4) and slid\$4 ))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L24 | 412  | L23 not L22   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L25 | 7979 | (etch\$4) near2 ((single\$1 one lone) near2 (proces\$4 step\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L26 | 1    | (etch\$4) near2 ((single\$1 one lone)<br>near2 (proces\$4 step\$4)) near3<br>(toleran\$4)                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L27 | 13   | (etch\$4) near2 ((single\$1 one lone)<br>near2 (proces\$4 step\$4)) with<br>(toleran\$4)                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L28 | 140  | 385/52,95-99.ccls. and ((plate\$2 layer\$2 substrat\$2 member\$3 portion\$2) near3 rotat\$3)                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |

| L29 | 4    | 385/52,95-99.ccls. and ((plate\$2 layer\$2 substrat\$2 member\$3 portion\$2) near3 rotat\$3) same (etch\$3)          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
|-----|------|--|---|----|-----|------------------|
| L30 | 20   | 385/52,95-99.ccls. and (rotat\$3) same (etch\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L31 | 1619 | (optical\$4 near2 align\$4) same<br>(etch\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L32 | 285  | 385/52,95-99.ccls. and (align\$4 same etch\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L33 | 4323 | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and (align\$4 same etch\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L34 | 435  | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and ((align\$4 same etch\$4) and ((rotat\$4 spin\$4) and slid\$4 )) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L35 | 7979 | (etch\$4) near2 ((single\$1 one lone) near2 (proces\$4 step\$4))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L36 | 1    | ("6571041").PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |
| L37 | 1    | ("20050018969").PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |
| L38 | 1    | ("20040052470").PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |

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|-----|----|---|---|----|----|------------------|
| L39 | 1  | (etch\$4) near2 ((single\$1 one lone)<br>near2 (proces\$4 step\$4)) near3<br>(toleran\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L40 | 8  | (optical\$4 near2 align\$4) same<br>(etch\$4) near2 (single\$1 near2<br>(proces\$4 step\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L41 | 4  | (optical\$4 near2 align\$4) same<br>(etch\$4) near2 ((lone\$2 one) near2<br>(proces\$4 step\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L42 | 9  | L31 same ((rotat\$4 spin\$4 revolv\$4) and slid\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L43 | 32 | L32 and ((rotat\$4 spin\$4 revolv\$4) and slid\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L44 | 22 | L32 and ((rotat\$4 spin\$4 revolv\$4) same (slid\$4 move moving movable moved shift\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L45 | 15 | ("20020037142"   "20020181839"  <br>"4714214"   "5138496"   "5301251"<br>  "5570444"   "6115166"  <br>"6201644").PN. OR ("6571041").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/05/25 11:52 |
| L46 | 23 | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and ((align\$4 same etch\$4) same ((rotat\$4 spin\$4) and slid\$4 ))                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |

| L47 | 13  | (etch\$4) near2 ((single\$1 one lone)<br>near2 (proces\$4 step\$4)) with<br>(toleran\$4)                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
|-----|-----|---|---|----|----|------------------|
| L48 | 4   | 385/52,95-99.ccls. and ((plate\$2 layer\$2 substrat\$2 member\$3 portion\$2) near3 rotat\$3) same (etch\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L49 | 20  | 385/52,95-99.ccls. and (rotat\$3) same (etch\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L50 | 144 | (optical\$4 near2 align\$4) same<br>(etch\$4) near3 (tolarance\$2<br>accura\$4 precis\$4)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L51 | 113 | L31 and ((rotat\$4 spin\$4 revolv\$4) and slid\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L52 | 140 | 385/52,95-99.ccls. and ((plate\$2 layer\$2 substrat\$2 member\$3 portion\$2) near3 rotat\$3)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L53 | 285 | 385/52,95-99.ccls. and (align\$4 same etch\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L54 | 412 | L34 not L46   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |

| L55 | 172  | (optic\$4) near3 (align\$4) same<br>(etch\$4) same (solder\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
|-----|------|---|---|----|----|------------------|
| L56 | 6    | (optic\$4) near3 (align\$4) same<br>(etch\$4) same (solder\$4) same<br>(rotat\$4 spin\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L57 | 1    | (optic\$4) near3 (align\$4) same<br>(etch\$4) same (solder\$4) same<br>(rotat\$4 spin\$4) same (slid\$4)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L58 | 9    | (optic\$4) near3 (align\$4) same<br>(etch\$4) same (solder\$4) same<br>(rotat\$4 spin\$4 slid\$4 move<br>moving\$2 shift\$2)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L59 | 9    | (optic\$4) near3 (align\$4) same<br>(etch\$4) same (solder\$4) same<br>(rotat\$4 spin\$4 slid\$4 move<br>moving\$2 shift\$3)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L60 | 1    | ((optic\$4) near3 (align\$4) same<br>(etch\$4) same (solder\$4) same<br>(rotat\$4 spin\$4 slid\$4 move<br>moving\$2 shift\$3)).clm. | US-PGPUB  | OR | ON | 2006/05/25 11:52 |
| L61 | 1619 | (optical\$4 near2 align\$4) same<br>(etch\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L62 | 285  | 385/52,95-99.ccls. and (align\$4 same etch\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |

|     |      |  | <b>-</b>  |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| L63 | 4323 | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and (align\$4 same etch\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L64 | 435  | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and ((align\$4 same etch\$4) and ((rotat\$4 spin\$4) and slid\$4 )) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L65 | 7979 | (etch\$4) near2 ((single\$1 one lone) near2 (proces\$4 step\$4))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L66 | 1619 | (optical\$4 near2 align\$4) same<br>(etch\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L67 | 285  | 385/52,95-99.ccls. and (align\$4 same etch\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L68 | 4323 | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and (align\$4 same etch\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L69 | 435  | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and ((align\$4 same etch\$4) and ((rotat\$4 spin\$4) and slid\$4 )) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L70 | 7979 | (etch\$4) near2 ((single\$1 one lone)<br>near2 (proces\$4 step\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L71 | 1    | ("6571041").PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |

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|-----|----|--|---|----|-----|------------------|
| L72 | 1  | ("20050018969").PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |
| L73 | 1  | ("20040052470").PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |
| L74 | 1  | (etch\$4) near2 ((single\$1 one lone)<br>near2 (proces\$4 step\$4)) near3<br>(toleran\$4)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L75 | 1  | ("6571041").PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |
| L76 | 1  | ("20050018969").PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |
| L77 | 1  | ("20040052470").PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |
| L78 | 1  | (etch\$4) near2 ((single\$1 one lone)<br>near2 (proces\$4 step\$4)) near3<br>(toleran\$4)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L79 | 8  | (optical\$4 near2 align\$4) same<br>(etch\$4) near2 (single\$1 near2<br>(proces\$4 step\$4))     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L80 | 4  | (optical\$4 near2 align\$4) same<br>(etch\$4) near2 ((lone\$2 one) near2<br>(proces\$4 step\$4)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L81 | 9  | L61 same ((rotat\$4 spin\$4 revolv\$4) and slid\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L82 | 32 | L62 and ((rotat\$4 spin\$4 revolv\$4) and slid\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |

| L83 | 22 | L62 and ((rotat\$4 spin\$4 revolv\$4) same (slid\$4 move moving movable moved shift\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
|-----|----|---|---|----|----|------------------|
| L84 | 15 | ("20020037142"   "20020181839"  <br>"4714214"   "5138496"   "5301251"<br>  "5570444"   "6115166"  <br>"6201644").PN. OR ("6571041").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/05/25 11:52 |
| L85 | 23 | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and ((align\$4 same etch\$4) same ((rotat\$4 spin\$4) and slid\$4 ))                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L86 | 13 | (etch\$4) near2 ((single\$1 one lone)<br>near2 (proces\$4 step\$4)) with<br>(toleran\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L87 | 4  | 385/52,95-99.ccls. and ((plate\$2 layer\$2 substrat\$2 member\$3 portion\$2) near3 rotat\$3) same (etch\$3)                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L88 | 20 | 385/52,95-99.ccls. and (rotat\$3) same (etch\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L89 | 8  | (optical\$4 near2 align\$4) same<br>(etch\$4) near2 (single\$1 near2<br>(proces\$4 step\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L90 | 4  | (optical\$4 near2 align\$4) same<br>(etch\$4) near2 ((lone\$2 one) near2<br>(proces\$4 step\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |

| L91 | 9  | L66 same ((rotat\$4 spin\$4 revolv\$4) and slid\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
|-----|----|---|---|----|----|------------------|
| L92 | 32 | L67 and ((rotat\$4 spin\$4 revolv\$4) and slid\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L93 | 22 | L67 and ((rotat\$4 spin\$4 revolv\$4) same (slid\$4 move moving movable moved shift\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L94 | 15 | ("20020037142"   "20020181839"  <br>"4714214"   "5138496"   "5301251"<br>  "5570444"   "6115166"  <br>"6201644").PN. OR ("6571041").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/05/25 11:52 |
| L95 | 23 | (385/52,95-99.ccls. (optical\$4 near2 align\$4)) and ((align\$4 same etch\$4) same ((rotat\$4 spin\$4) and slid\$4 ))                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L96 | 13 | (etch\$4) near2 ((single\$1 one lone)<br>near2 (proces\$4 step\$4)) with<br>(toleran\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L97 | 4  | 385/52,95-99.ccls. and ((plate\$2 layer\$2 substrat\$2 member\$3 portion\$2) near3 rotat\$3) same (etch\$3)                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L98 | 20 | 385/52,95-99.ccls. and (rotat\$3) same (etch\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |

| L99  | 144 | (optical\$4 near2 align\$4) same<br>(etch\$4) near3 (tolarance\$2<br>accura\$4 precis\$4)    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
|------|-----|--|---|----|----|------------------|
| L100 | 113 | L61 and ((rotat\$4 spin\$4 revolv\$4) and slid\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L101 | 140 | 385/52,95-99.ccls. and ((plate\$2 layer\$2 substrat\$2 member\$3 portion\$2) near3 rotat\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L102 | 144 | (optical\$4 near2 align\$4) same<br>(etch\$4) near3 (tolarance\$2<br>accura\$4 precis\$4)    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L103 | 113 | L66 and ((rotat\$4 spin\$4 revolv\$4)<br>and slid\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L104 | 140 | 385/52,95-99.ccls. and ((plate\$2 layer\$2 substrat\$2 member\$3 portion\$2) near3 rotat\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L105 | 285 | 385/52,95-99.ccls. and (align\$4 same etch\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |
| L106 | 285 | 385/52,95-99.ccls. and (align\$4 same etch\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/25 11:52 |

| L107 | 412 | L64 not L85   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
|------|-----|---|---|----|-----|------------------|
| L108 | 412 | L69 not L95   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L109 | 1   | ("5448581").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2006/05/25 11:52 |
| L110 | 338 | (Second adj2 order\$2) adj2<br>(grating\$2)                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L111 | 39  | (Second adj2 order\$2) adj2<br>(grating\$2) near2 (period\$2)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L112 | 1   | (Second adj2 order\$2) adj2<br>(grating\$2) near2 (period\$2) near2<br>spacing\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |
| L113 | 3   | (Second adj2 order\$2) adj2<br>(grating\$2) near2 spacing\$4                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/25 11:52 |